

Motion WS 1

For each problem, make a sketch of the scenario. Use an arrow to indicate the displacement. Calculate the distance and displacement of each and show your work. Pay attention to the units (km, m, miles, feet, blocks).

1. David walks 3 km north, then turns and walks 4 km east.

2. Amy runs 2 miles south, then turns around and runs 3 miles north.

3. Jermaine runs exactly 2 laps around a 400 meter track.

4. Derrick crawls 4 feet then turns 90 degrees and crawls 6 feet.

5. Ray runs 30 feet north, 30 feet west, and then 30 feet south.

6. Mike walks 10 steps forward, turns 180 degrees and walks 4 steps back.

7. Andy walks 1 mile then turns 90 degrees and walks 2 miles.

8. Jill walks two miles from her door to the park, then returns home to her door.

9. Sandy ran 3 blocks north, and then 2 blocks west.

10. George swam 3 complete laps in a 50 meter pool. (1 lap is to the other side and back)